

NanoLIBS®

Handheld LIBS Analyzer for the Pharmaceutical Industry



The NanoLIBS® Handheld LIBS Analyzer is a state-of-the-art handheld Laser Induced Breakdown Spectroscopy instrument for rapid identification of solid materials based on elemental analysis. NanoLIBS provides considerable time savings in materials identification and confirmation, improving compliance for raw material testing requirements while increasing productivity. The NanoLIBS is lightweight with a high brightness touch screen for rapid material identification using identification and investigation operation modes, giving results in seconds. The unit has a built-in 2D barcode scanner. NanoLIBS ID data management and reporting software for user PCs is included.

The NanoLIBS uses the minimally destructive and 21 CFR 1040.10 compliant LIBS technology to provide a spectrum with elemental information, ideal for identifying monoatomic ionic salts such as KCl and NaCl without requiring reagents or lengthy sample preparation of destructive laboratory methods. With its intuitive user interface and advanced algorithms it provides users a pass/fail result within seconds.

Intuitive Software – a user-friendly interface for both technical & non-technical users to make their job easier

Versatility – measure a variety of samples in a variety of environments

Data Reproducibility – superior hardware ensures that results are consistent and reliable

Performance – robust multivariate algorithms guarantee accuracy when testing and identifying materials

Applications:

Incoming Material Identification

Unknown Substance Investigation

Counterfeit Determination

Contaminant Detection

Features:

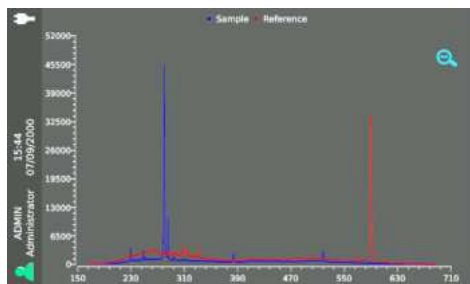
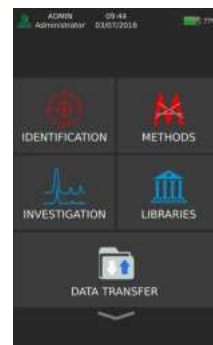
- High- brightness touch screen
- Rastering beam for better sampling with ~400 µm diameter sampling spot
- Rapid scanning with actionable results
- Library & method building capabilities to meet specific analysis needs
- Battery life around 4 hours
- Wi-Fi and Ethernet data transfer for reporting and data management in secure database
- 21 CFR part 11 compliant software

Software

State-of-the-Art Identification Software

The NanoLIBS comes standard with B&W Tek's proprietary NanoLIBS OS software installed on the unit, which allows for identification and investigation, library and method development, and data transfer. Results are clearly displayed and can be reviewed on the easy-to-use touchscreen interface. The NanoLIBS ID software with a secure database is designed for use on PCs for data and methods management, allowing customers to review data, generate reports, export data, and integrate with their LIMS system. The NanoLIBS ID and NanoLIBS OS software packages are 21CFR part 11 compliant, with IQ/OQ documentation and services available for pharmaceutical customers.

Additionally, the NanoLIBS provides secure Wi-Fi and Ethernet synchronization capabilities with network terminals in order to optimize time and resources. NanoLIBS OS is capable of data and report transfers in order to centralize information (such as libraries, methods and final reports) in general servers.



Specifications:

Excitation Wavelength	1064 nm
Laser Safety Class	3B
Spectral Range	UV - VIS - NIR
Display	3.7" color touchscreen; glove operable
Barcode Reader	Linear and 2D standards
Software	NanoLIBS OS (embedded), NanoLIBS ID (PC)
Data Formats	.txt, .csv, .spc
Connectivity	Wi-Fi, Ethernet
Battery	Rechargeable Li-ion, >4 hrs operation
AC Adapter	Output: DC 12 V, 2A minimum
Weight (including battery)	3.9 lbs (1.8 kg)
Size	10.4 in x 3.9 in x 12 in (265 mm x 100 mm x 304 mm)
Operating Temperature	0 - 40°C
Storage Temperature	-30°C to +60°C

